

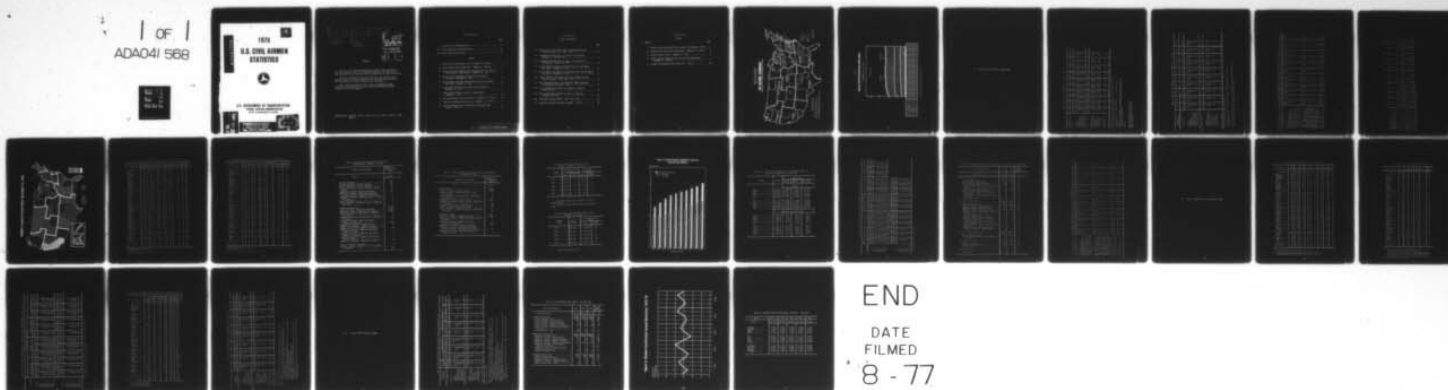
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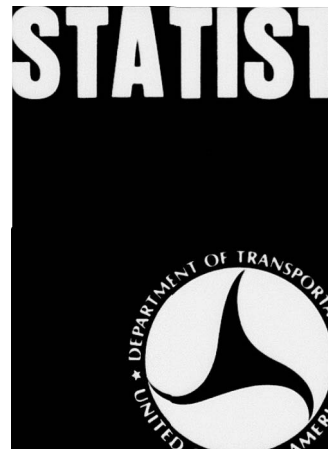
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② U.S. Civil Airmen Statistics

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PREFACE

↙
The U.S. Civil Airmen Statistics is an annual study published to meet the demands of FAA, other government agencies, and industry for more detailed airmen statistics than those published in other FAA reports.

Statistics pertaining to airmen, both pilot and nonpilot, were obtained from the official airman certification records maintained at the FAA Aeronautical Center, Oklahoma City, Oklahoma.

↗
This study was prepared in the Office of Management Systems, Information and Statistics Division, Information Operations Branch (AMS-220), by Patricia Wilson.

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Department of Transportation
Federal Aviation Administration

FAA REGIONAL BOUNDARIES

Including Locations of Regional Headquarters & Centers

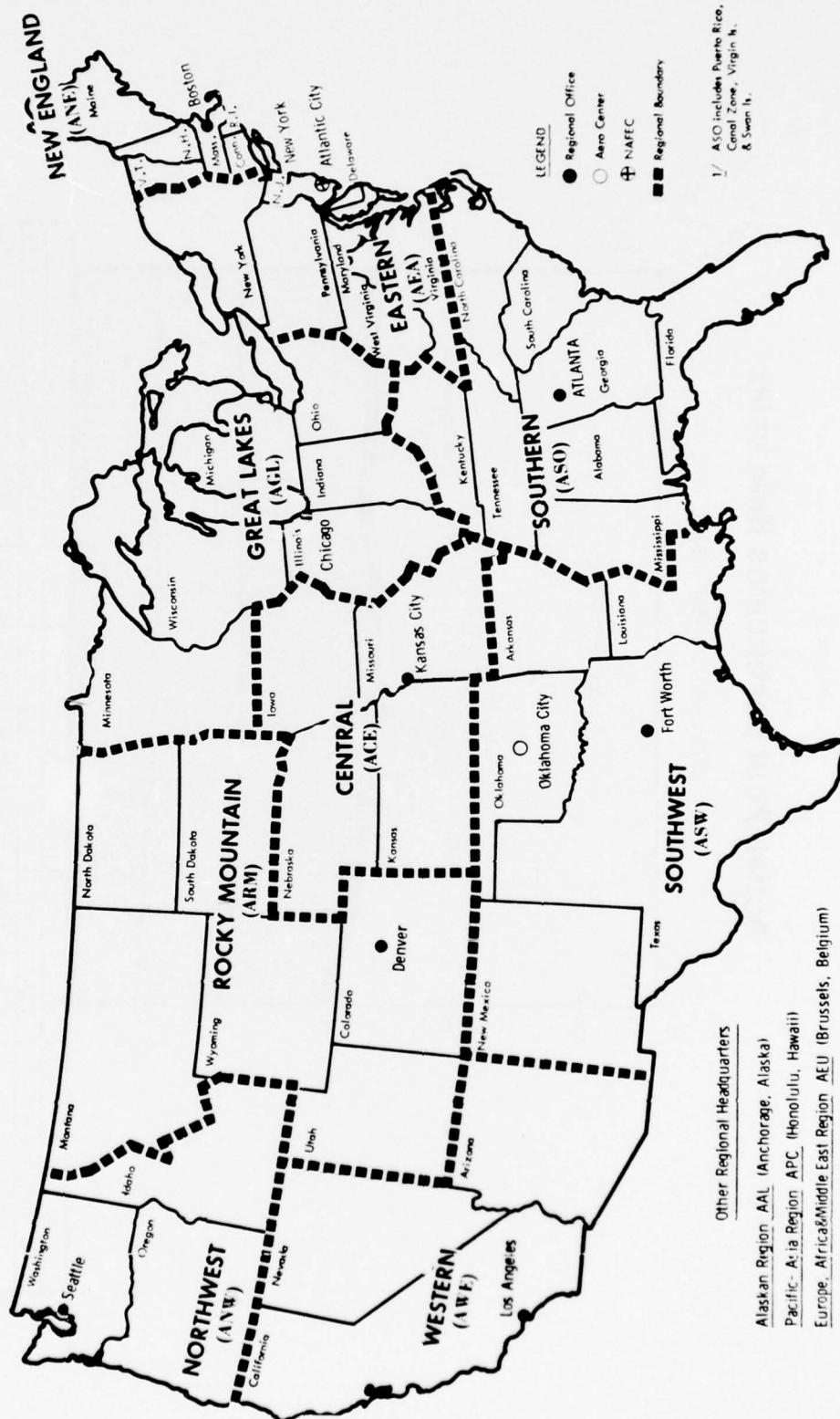
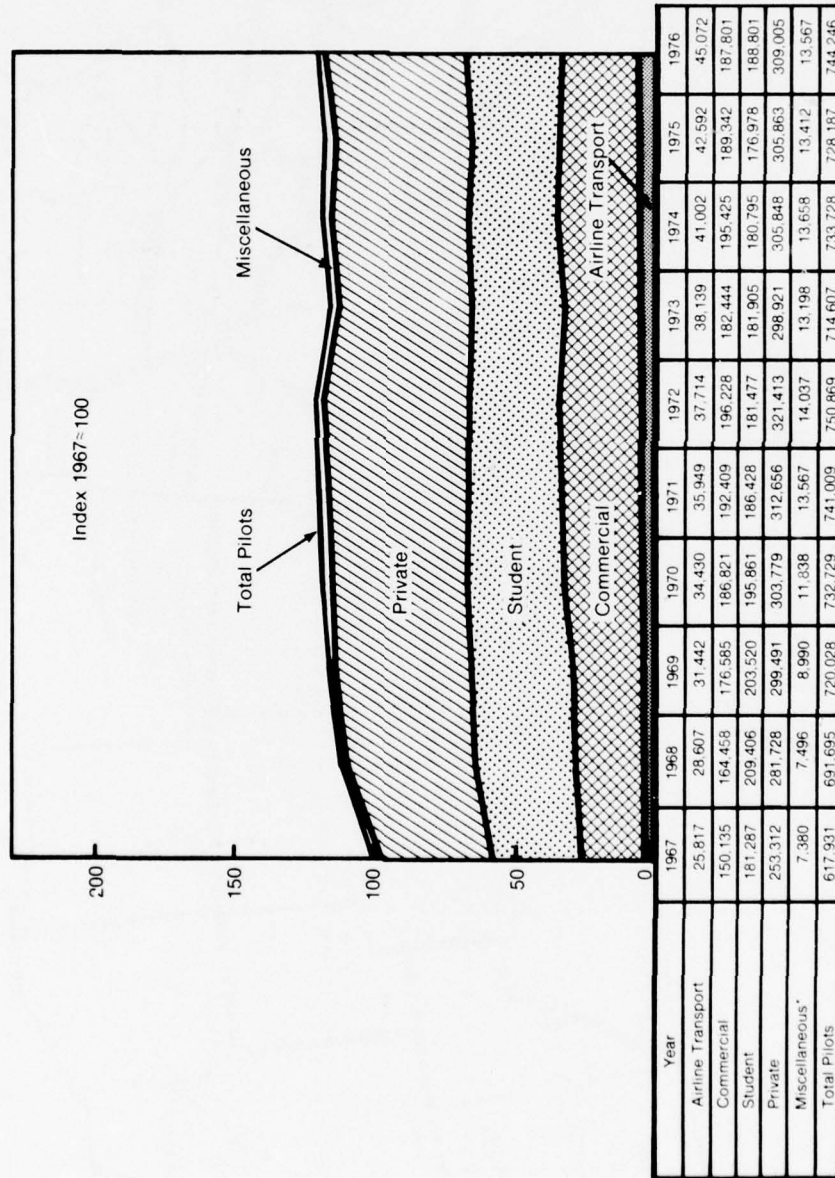


Figure 2.

Active Pilot Certificates Held Index

DECEMBER 31, 1967—1976



*Includes Helicopter, Glider, and Lighter-than-air.

I. ACTIVE PILOT CERTIFICATES HELD

Table 1.--Active Pilot Certificates Held: December 31, 1967-1976

Category	1967	1968	1969	1970	1971	1972	1973-3/	1974	1975	1976
Pilot--total ...	617,931	691,695	720,028	732,729	741,009	750,869	714,607	733,728	728,187	744,246
Student	181,287	209,406	203,520	195,861	186,428	181,477	181,905	180,795	176,978	188,801
Private	253,312	281,728	299,491	303,779	312,656	321,413	298,921	305,848	305,863	309,005
Commercial	150,135	164,458	176,585	186,821	192,409	196,228	182,444	192,425	189,342	187,801
Airline transport	25,817	28,607	31,442	34,430	35,949	37,714	38,139	41,002	42,592	45,072
Helicopter (only)	2,573	3,166	4,286	6,677	7,932	7,987	5,968	5,647	4,932	4,804
Glider (only)1/*	1,866	2,193	2,627	3,114	3,571	4,080	4,288	4,824	5,348	5,789
Lighter-than-air1/*	1/2,941	2,137	2,077	2,047	2,004	1,970	2,942	3,187	3,132	2,974
Non-pilot--total .	231,801	250,151	269,775	289,681	307,057	315,348	304,747	314,394	323,934	334,681
Mechanic1/.....	146,572	158,211	170,716	184,647	193,295	201,700	193,337	198,863	205,436	212,303
Parachute rigger1/	5,347	5,700	6,070	6,424	6,839	7,287	6,941	7,900	8,327	8,718
Ground instructor1/	34,262	37,889	41,234	44,176	46,145	48,450	46,827	49,249	51,365	53,464
Dispatcher1/.....	4,441	4,766	5,026	5,293	5,480	5,637	5,527	5,576	5,741	5,838
Control tower operator	17,425	18,610	19,851	21,032	26,450	23,353	23,250	23,342	23,956	24,584
Flight navigator	2,891	2,966	3,011	2,950	3,052	2,957	2,636	2,509	2,321	2,214
Flight engineer .	20,863	22,009	23,867	25,159	25,796	25,964	26,229	26,955	26,788	27,560
Flight instructor certificates	44,421	30,361	33,992	37,822	37,760	37,858	36,795	42,418	44,777	46,236
Instrument ratings2/	122,573	139,346	155,879	169,848	179,261	187,909	185,969	199,323	203,954	211,364

1/Numbers represent all certificates on record. No medical examination required; no determination as to activity can be made.

2/Special ratings shown on pilot certificates, i.e., do not indicate additional certificates.

3/The decrease in the number of airmen resulted from a purging of the airmen certification files. During this process approximately 26 thousand duplicates or faulty records were eliminated.

E/Revised

*Glider and lighter-than air pilots are not required to have a medical examination; however, the totals above are the pilots who received a medical.

Table 2.--Women Actively Engaged in Aviation: December 31, 1967-1976

Category of certificates held	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976
Pilot--total	23,659	28,401	29,419	29,472	31,096	33,001	34,356	36,943	37,934	41,643
Student	13,173	16,234	16,055	15,787	16,417	17,053	18,593	19,298	19,600	22,254
Private	8,775	10,164	11,174	11,409	12,332	13,391	13,232	14,465	14,952	15,838
Commercial	1,479	1,691	1,824	1,897	2,032	2,196	2,083	2,596	2,733	2,857
Airline transport	57	71	76	79	88	101	95	116	137	160
Helicopter (only)	16	16	14	6	9	10	7	5	11	17
Glider (only)1/*	77	91	111	141	169	201	216	271	301	352
Lighter-than-air1/*	82	134	165	153	169	49	130	192	200	165
Nonpilot--total ...	2,477	2,707	2,912	3,078	3,413	3,594	3,074	3,471	3,809	4,252
Mechanic1/.....	196	229	269	302	322	349	284	315	360	422
Parachute rigger1/	434	445	449	461	470	483	336	495	504	516
Ground instructor1/	1,637	1,769	1,917	2,006	2,081	2,166	1,960	2,139	2,249	2,369
Dispatcher1/.....	28	30	36	38	39	40	39	42	50	55
Control tower operator	165	205	222	271	501	556	453	473	638	874
Flight engineer .	16	28	18	0	0	0	2	7	8	16
Flight navigator.	1	1	1	0	0	0	0	0	0	0
Flight instructor.	635	531	560	589	646	664	618	834	945	1,054

NOTE: Instrument ratings not reported.

1/No medical examination required; therefore, no determination as to activity can be made.

*Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above are the pilots who received a medical.

Table 3. Active Pilots and Nonpilots Certificates Held, by Class of Certificates, by FAA Region: December 31, 1976

Class of certificates	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Rocky Mountain	Western	Northwest	Alaskan	Pacific	Foreign
Total-all groups.....	746,246	32,189	101,849	132,452	48,721	110,828	90,190	36,876	126,091	40,290	9,798	3,037	11,824
Student pilots-total.....	148,801	8,632	27,187	34,854	12,672	28,528	21,831	9,781	28,671	10,100	2,681	674	3,277
Private pilots-total.....	398,005	12,647	61,224	62,212	22,998	41,729	35,301	12,169	33,311	17,286	3,230	909	2,352
Private airplane (only).....	301,988	12,315	40,028	61,176	22,637	40,684	34,595	14,838	51,944	16,865	3,847	851	2,178
Private airplane, private glider.....	3,638	214	721	597	135	444	312	173	808	158	27	21	28
Private airplane, commercial glider.....	420	38	90	78	12	51	31	25	107	26	1	7	4
Private airplane, private helicopter.....	720	24	138	121	56	125	65	18	164	3	0	0	0
Private airplane, private glider, private helicopter.....	28	4	6	3	0	5	3	0	7	0	0	0	0
Private airplane, commercial helicopter.....	2,109	51	239	229	156	442	291	113	312	155	50	28	43
Private airplane, private glider, commercial helicopter.....	9	0	1	1	1	0	0	1	3	2	0	0	0
Private airplane, commercial glider, commercial helicopter.....	9	0	0	3	0	4	0	1	0	0	0	1	0
Private airplane, commercial gyroplane, commercial helicopter.....	1	0	0	1	0	0	0	0	0	0	0	0	0
Commercial pilots-total.....	187,801	7,672	25,013	27,883	10,732	30,897	26,177	9,114	32,826	10,220	2,527	1,091	3,277
Commercial airplane (only).....	161,916	6,654	21,350	25,002	9,601	25,876	22,445	7,992	28,229	8,659	2,149	792	3,277
Commercial airplane, private glider.....	1,884	81	313	278	73	235	193	92	467	87	34	15	16
Commercial airplane, commercial glider.....	4,296	225	688	603	160	640	506	239	889	227	36	36	45
Commercial airplane, commercial gyroplane.....	4	0	0	0	0	1	0	0	2	1	0	0	0
Commercial airplane, private helicopter.....	123	5	15	16	4	28	11	4	27	9	2	0	2
Commercial airplane, commercial glider, private helicopter.....	8	0	2	2	0	2	0	0	2	0	0	0	0
Commercial airplane, commercial helicopter.....	18,780	670	2,524	1,889	860	4,017	2,914	748	3,057	1,183	318	156	442
Commercial airplane, private glider, commercial helicopter.....	118	7	22	18	3	21	17	5	17	7	0	0	1
Commercial airplane, commercial glider, commercial helicopter.....	589	24	93	63	27	98	77	30	125	38	6	4	4
Commercial airplane, commercial helicopter.....	33	3	2	4	2	3	7	1	9	2	0	0	0
Commercial airplane, commercial glider, commercial gyroplane.....	34	3	3	5	2	2	5	3	6	5	0	0	0
Commercial airplane, commercial gyroplane, commercial helicopter.....	15	0	1	3	0	4	0	0	6	0	2	0	0
Airline transport pilots-total.....	45,072	2,602	6,215	5,685	1,799	7,695	5,374	1,877	8,592	2,035	369	299	2,330
Airline transport airplane.....	44,704	2,588	6,156	5,647	1,778	7,643	5,325	1,862	8,522	2,009	360	295	2,319
Airline transport airplane, airline transport helicopter.....	368	14	59	38	21	52	49	15	70	26	9	4	11

Motorcraft (only) pilots-total.....	4,804	130	648	456	238	1,182	849	172	538	305	74	65	137
Private aviator.....	308	7	0	1	0	44	30	1	1	0	0	0	0
Private helicopter.....	4,433	123	572	395	217	1,127	814	165	483	284	70	62	121
Commercial helicopter, private pilot.....	1	0	0	0	0	0	0	0	0	0	0	0	0
Commercial helicopter, commercial pilot.....	1	0	0	0	0	0	0	0	0	0	0	0	0
Commercial glider.....	4	0	0	0	0	0	0	0	0	0	0	0	0
Airline transport pilot.....	47	0	5	4	3	4	5	1	15	1	3	1	5
Glider (only)-total.....	5,289	374	1,170	750	128	364	341	654	1,418	242	7	80	61
Private glider.....	4,812	299	974	621	86	310	251	557	1,383	204	4	66	55
Commercial glider.....	917	75	196	129	42	54	90	97	133	38	3	14	6
Lighter-than-air.....	2,974	142	423	632	181	493	317	109	525	102	10	7	33
Total-all nonpilot.....	336,481	16,806	58,806	52,401	18,030	51,555	40,031	11,855	64,731	16,180	3,069	2,516	10,497
Mechanic I/.....	212,703	11,028	39,573	26,135	12,074	30,210	24,533	6,459	42,812	8,279	1,932	1,869	6,415
Parachute rigger I/.....	8,718	387	1,434	1,175	408	1,549	976	532	1,371	628	107	40	111
Ground instructor I/.....	53,464	2,566	8,588	8,427	3,429	8,087	6,942	2,540	8,998	2,761	546	205	873
Dispatcher I/.....	5,808	123	1,366	417	133	930	275	162	832	108	108	98	1,226
Flight instructor I/.....	4,568	208	3,567	3,170	1,139	3,069	2,470	1,262	3,697	1,028	240	115	400
Flight instructor II/.....	2,234	224	3,559	3,319	775	5,070	3,050	1,166	6,556	1,473	113	70	919
Flight instructor III/.....	27,560	1,750	3,559	3,319	775	5,070	3,050	1,166	6,556	1,473	113	70	919
Flight instructor certificates-total.....	46,236	1,556	9,663	8,135	2,713	7,053	6,040	2,273	7,394	2,464	607	195	543
Instrument ratings I/.....	211,364	9,185	29,816	32,422	10,946	36,006	27,553	8,930	37,465	10,232	2,212	1,167	5,438

I/ Total ratings issued to date. These ratings retain their validity without periodic medical examinations.
 Z/ Special ratings shown on pilot certificates, i.e., do not indicate additional ratings.

FIGURE 3. Active Private Pilots: December 31, 1976

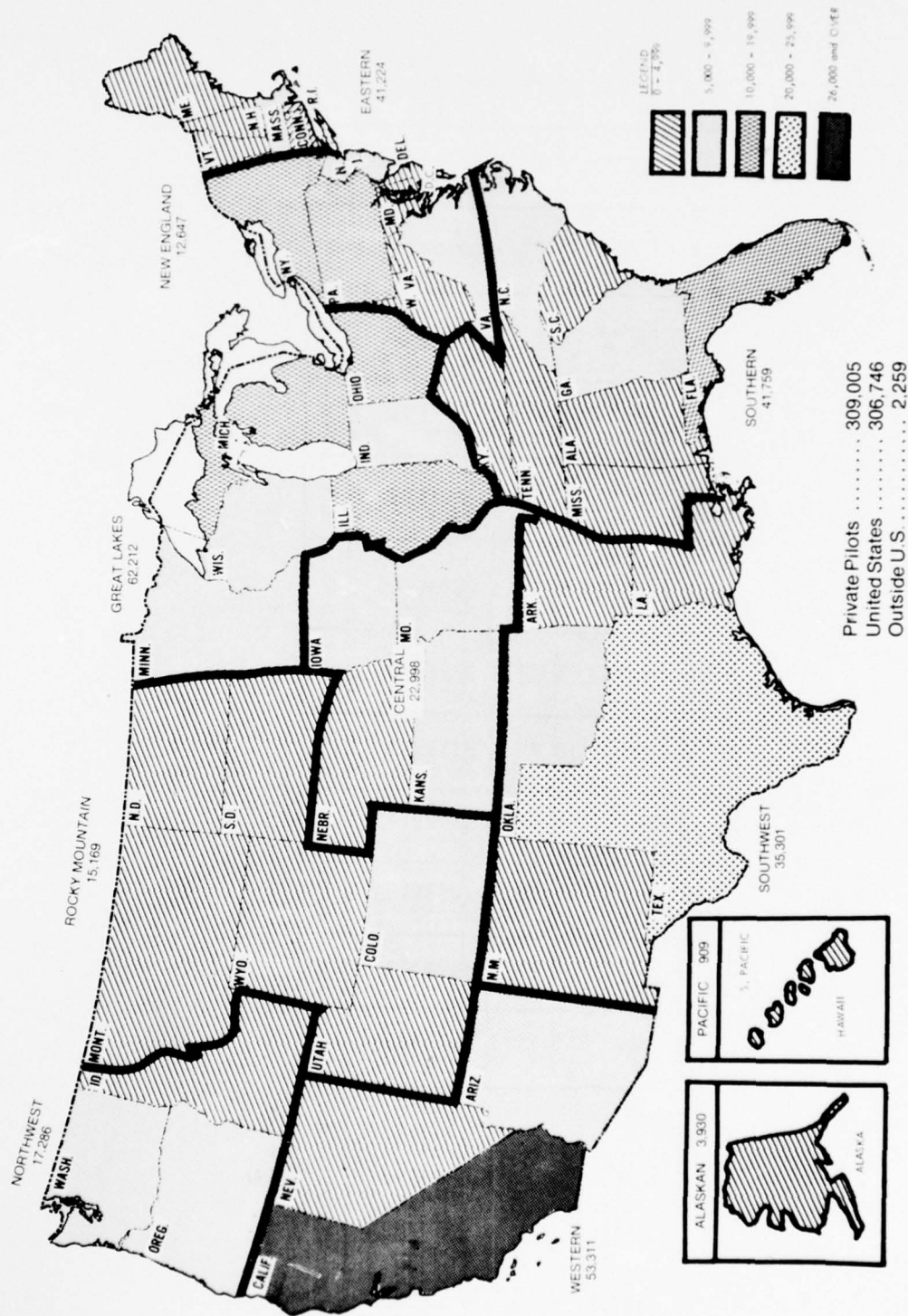


Table 4.--Active Pilots and Flight Instructors by FAA Region and State: December 31, 1976

FAA region and state	Total pilots	Student	Private	Commercial	Airline transport	Miscellaneous 2/	Flight instructor 3/
Total	744,246 1/	188,801	309,005	187,801	45,072	13,567	46,236
United States--total	732,422	185,524	306,746	185,074	42,742	13,336	45,693
New England--total	32,189	8,622	12,547	7,672	2,602	646	1,956
Maine	3,652	1,095	1,466	938	112	41	169
New Hampshire	3,446	785	1,164	969	453	75	197
Rhode Island	1,564	462	621	394	66	21	110
Massachusetts	12,746	3,731	5,308	2,735	678	294	756
Connecticut	9,270	2,146	3,432	2,286	1,221	185	623
Vermont	1,511	403	656	350	72	30	101
Eastern--total	101,880	27,187	41,224	25,013	6,215	2,241	6,663
New York	30,491	8,612	12,910	6,595	1,538	836	1,896
Pennsylvania	22,949	6,364	9,959	4,940	1,229	457	1,607
Virginia	15,413	3,650	5,073	5,317	1,069	304	921
Maryland	10,473	2,720	4,343	2,719	494	197	636
West Virginia	2,901	928	1,168	646	114	45	199
Delaware	1,766	376	745	476	143	26	143
New Jersey	17,057	4,318	6,710	4,089	1,599	341	1,216
District of Columbia ..	830	219	316	231	29	35	45
Great Lakes--total	132,492	34,864	62,212	27,883	5,685	1,848	8,135
Illinois	33,343	8,662	14,920	7,174	2,020	567	2,114
Indiana	15,408	4,143	7,461	3,207	434	163	1,019
Minnesota	17,105	4,239	7,845	3,897	959	165	880
Michigan	24,262	6,549	11,774	4,709	866	364	1,427
Ohio	29,585	7,832	13,970	6,393	939	451	1,965
Wisconsin	12,789	3,439	6,242	2,503	467	138	730
Central--total	48,751	12,675	22,998	10,132	1,799	547	2,713
Kansas	13,641	3,429	6,447	3,090	530	145	730
Iowa	11,347	3,090	5,689	2,228	217	123	596
Missouri	15,828	3,954	7,082	3,675	892	225	965
Nebraska	7,935	2,202	3,780	1,739	160	54	422
Southern--total	110,828	28,438	41,759	30,897	7,695	2,039	7,053
North Carolina	13,100	3,603	5,296	3,412	509	280	733
South Carolina	6,515	1,849	2,391	1,940	241	94	383
Georgia	15,650	3,700	5,332	4,489	1,836	293	952
Florida	42,745	10,367	15,703	12,322	3,725	628	2,647
Mississippi	5,764	1,580	2,161	1,783	173	67	363
Alabama	9,350	2,370	3,565	2,874	292	249	811
Tennessee	11,322	3,029	4,658	2,660	745	230	771
Kentucky	6,382	1,940	2,653	1,417	174	198	393
Southwest--total	90,190	21,831	35,301	26,177	5,374	1,507	6,040
Louisiana	9,918	2,554	3,593	3,127	433	211	674
Oklahoma	13,756	3,558	6,162	3,359	504	173	876
Texas	53,574	12,195	20,263	16,102	4,068	946	3,655
New Mexico	6,020	1,573	2,567	1,561	196	123	409
Arkansas	6,922	1,951	2,716	2,028	173	54	426
Rocky Mountain--total	36,876	9,781	15,169	9,114	1,877	935	2,273
Colorado	16,200	3,762	6,076	4,292	1,355	715	1,121
Wyoming	2,526	773	1,080	571	79	23	169
Utah	5,167	1,408	2,286	1,152	233	88	295
Montana	5,293	1,488	2,401	1,236	125	43	297
North Dakota	4,004	1,227	1,567	1,057	34	19	205
South Dakota	3,686	1,123	1,659	806	51	47	186
Western--total	126,091	28,671	53,311	32,836	8,592	2,681	7,394
California	107,187	24,018	45,650	27,847	7,420	2,252	6,212
Arizona	13,828	3,473	5,667	3,682	644	362	832
Nevada	5,076	1,180	1,994	1,307	528	67	350
Northwest--total	40,290	10,100	17,286	10,220	2,035	649	2,664
Washington	22,251	5,111	8,932	6,184	1,583	441	1,559
Oregon	12,874	3,609	6,053	2,767	290	155	766
Idaho	5,165	1,380	2,301	1,269	162	53	339
Alaskan region--total	9,798	2,681	3,930	2,527	569	91	607
Pacific region--total	3,037	674	909	1,003	299	152	195
Outside U.S.--total	11,824	3,277	2,259	3,727	2,330	231	543

1/ Includes Outside U.S.

2/ Includes glider helicopter, and lighter-than-air.

3/ Not included in total.

Note: Puerto Rico and Virgin Islands are included in Outside U.S. total.

Table 5.--Active Women Pilots and Flight Instructors by FAA Region and State: December 31, 1976

FAA region and state	Total pilots	Student	Private	Commercial	Airline transport	Miscellaneous 2/	Flight instructor 3/
Total	41,643 1/	22,254	15,838	2,857	160	534	1,054
United States--total ..	41,237	21,980	15,796	2,822	160	529	1,049
New England--total	1,866	1,024	664	143	4	31	49
Maine	175	96	64	13	0	2	3
New Hampshire	169	93	62	14	0	0	6
Rhode Island	93	51	31	10	0	1	4
Massachusetts	833	471	284	63	1	14	21
Connecticut	491	265	177	36	3	10	11
Vermont	105	48	46	7	0	4	4
Eastern--total	5,427	2,954	1,969	377	14	103	137
New York	1,785	962	669	98	3	53	39
Pennsylvania	1,220	671	433	95	5	16	38
Virginia	705	384	261	53	3	4	19
Maryland	590	316	215	49	0	10	13
West Virginia	127	83	36	8	0	0	3
Delaware	74	39	31	3	0	1	1
New Jersey	864	470	304	68	3	19	23
District of Columbia ..	62	39	20	3	0	0	1
Great Lakes--total	7,255	3,756	2,894	491	29	85	194
Illinois	1,810	907	751	122	8	22	47
Indiana	796	399	325	68	2	2	26
Minnesota	873	467	350	46	3	7	16
Michigan	1,303	674	499	97	5	28	33
Ohio	1,779	946	678	126	8	21	57
Wisconsin	694	363	291	32	3	5	15
Central--total	2,761	1,417	1,153	168	7	19	59
Kansas	856	418	383	46	4	5	18
Iowa	604	322	240	36	0	6	12
Missouri	877	456	352	60	2	7	17
Nebraska	424	218	178	26	1	1	12
Southern--total	5,481	3,191	1,868	358	25	39	150
North Carolina	602	375	182	39	1	5	14
South Carolina	280	158	92	23	2	5	11
Georgia	640	387	201	42	3	7	17
Florida	2,493	1,403	890	169	15	16	72
Mississippi	247	149	78	17	1	2	5
Alabama	383	227	139	17	0	0	9
Tennessee	542	304	195	38	1	4	16
Kentucky	294	188	91	13	2	0	8
Southwest--total	4,640	2,534	1,738	312	19	37	123
Louisiana	441	247	158	29	3	4	13
Oklahoma	802	407	340	50	2	3	20
Texas	2,629	1,452	977	172	12	16	65
New Mexico	449	236	170	29	2	12	13
Arkansas	319	192	93	32	0	2	12
Rocky Mountain--total	1,917	1,089	687	104	7	30	41
Colorado	897	489	329	53	5	21	21
Wyoming	132	82	45	5	0	0	2
Utah	253	132	98	14	2	7	6
Montana	301	188	98	14	0	1	4
North Dakota	178	101	61	16	0	0	8
South Dakota	156	97	56	2	0	1	0
Western--total	8,491	4,200	3,466	642	41	142	211
California	7,211	3,518	3,001	537	35	120	179
Arizona	957	498	351	84	3	21	21
Nevada	323	184	114	21	3	1	11
Northwest--total	2,472	1,304	975	159	5	29	57
Washington	1,360	689	558	88	4	21	26
Oregon	851	473	316	56	0	6	23
Idaho	261	142	101	15	1	2	8
Alaskan region--total	745	404	281	54	5	1	20
Pacific region--total	182	100	51	14	4	13	8
Outside U.S.--total	406	274	92	35	0	5	5

1/ Includes Outside U.S.

2/ Includes helicopter, glider, and lighter-than-air.

3/ Not included in total.

NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.

Table 6.--Active Helicopter Pilots by Class of
Certificates: December 31, 1976

Class of certificates	Number of certificates held
Total	27,816
Private helicopter	308
Private gyroplane, private airplane	23
Private helicopter, private airplane	760
Private helicopter, private airplane, private glider	28
Commercial airplane, private helicopter	123
Commercial airplane, commercial gyroplane, commercial glider, commercial helicopter	16
Commercial airplane, commercial glider, private helicopter	8
Private gyroplane	4
Private airplane, commercial glider, commercial helicopter	9
Commercial helicopter	4,433
Private airplane, commercial helicopter	2,109
Commercial airplane, commercial helicopter	18,780
Private airplane, private glider, commercial helicopter	9
Commercial airplane, private glider, commercial helicopter	118
Commercial airplane, commercial glider, commercial helicopter	589
Commercial helicopter, private glider	1
Commercial helicopter, commercial glider	7
Commercial gyroplane, commercial airplane	34
Commercial airplane, commercial gyroplane, commercial glider	4
Commercial airplane, commercial gyroplane, commercial helicopter	33
Commercial gyroplane, commercial helicopter, private airplane	1
Commercial helicopter, commercial gyroplane	4
Airline transport helicopter	47
Airline transport airplane, airline transport helicopter	368

Table 7.--Active Glider Pilots by Class of Certificates:
December 31, 1976

Class of certificates	Number of certificates held
Total	16,866
Private glider	4,812
Private airplane, private glider	3,638
Private airplane, private glider, private helicopter	28
Private airplane, private glider, commercial helicopter	9
Commercial airplane, private glider	1,884
Commercial airplane, private glider, commercial helicopter	118
Commercial helicopter, private glider	1
Private airplane, commercial glider	470
Private airplane, commercial glider, commercial helicopter	9
Commercial glider	977
Commercial airplane, commercial glider	4,296
Commercial airplane, commercial glider, private helicopter	8
Commercial airplane, commercial glider, commercial helicopter	589
Commercial helicopter, commercial glider	7
Commercial airplane, commercial gyroplane, commercial glider and commercial helicopter.	16
Commercial airplane, commercial gyroplane, commercial glider	4

Table 8.--Active Helicopter and Glider
Pilots: December 31, 1972-76

Calendar year	Total helicopter pilots ^{1/}		Total glider pilots ^{2/}	
	Number	Percent change	Number	Percent change
1976	27,816	-1	16,866	+6
1975	27,872	-3	15,962	+6
1974	28,618	+18	15,013	+40
1973	24,352	-22	10,723	-20
1972	31,141	+5	13,482	+11

^{1/}Includes pilots with ratings to fly helicopters only.

^{2/}Includes pilots with ratings to fly gliders only.

Table 9.--Total and Instrument Rated Pilots
December 31, 1972-76

Calendar Year	Total pilots ^{1/}	Instrument rated Pilots	
		Number	Percent of total
1976	555,625	211,364	38
1975	551,209	203,954	37
1974	552,933	199,323	36
1973	532,702	185,696	35
1972	569,392	187,909	33

^{1/}Excludes student pilots.

**Figure 4. ACTIVE AIRLINE TRANSPORT PILOTS BY
SELECTED AGE GROUPS.**

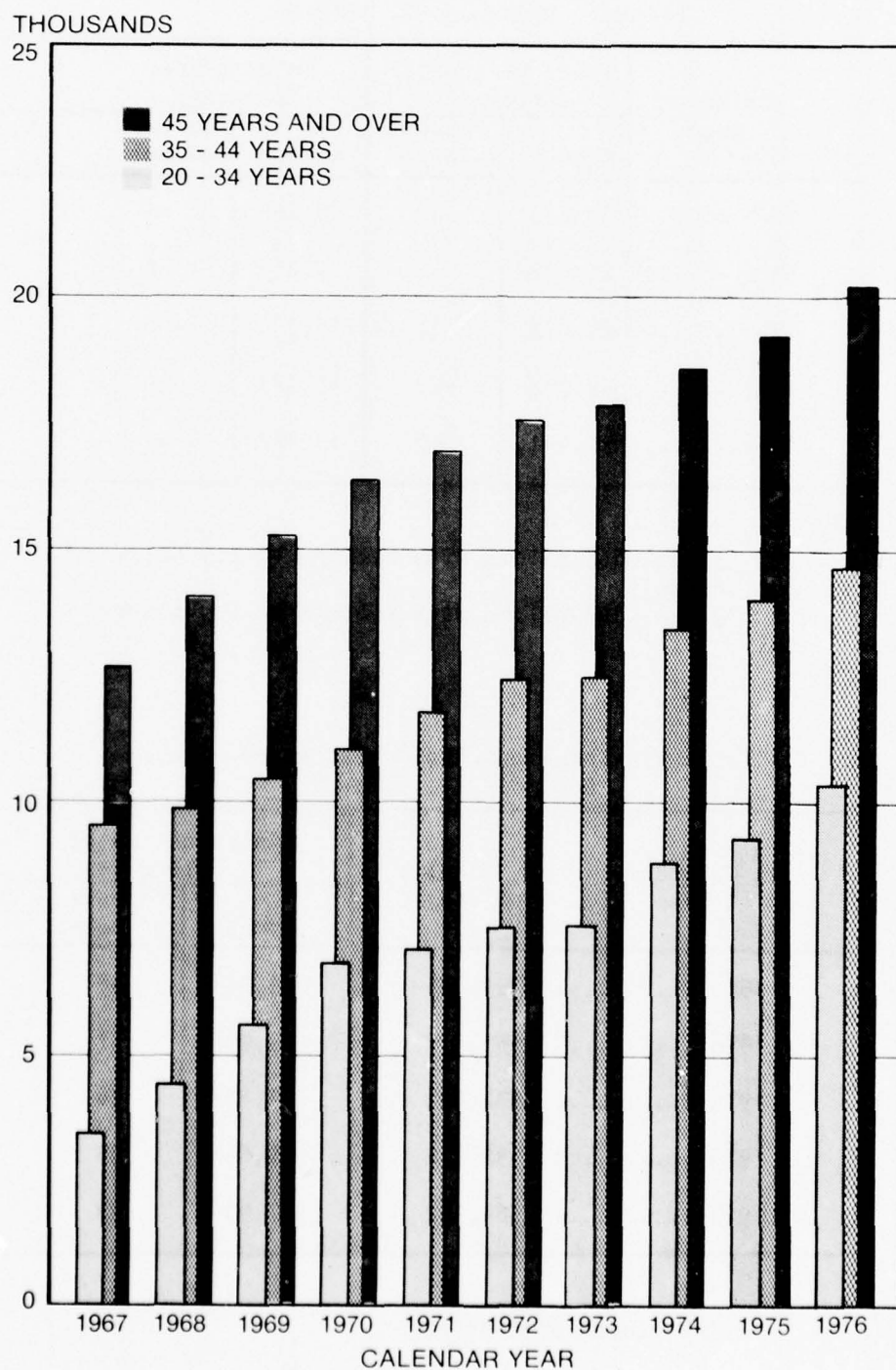


Table 10.--Airline Transport Certificates Held, by
Selected Age Groups: 1967-76

Year	Total	Age group		
		20-34 years	35-44 years	45 years and over
		Number		
1967	25,817	3,402	9,673	12,742
1968	28,607	4,481	9,990	14,136
1969	31,442	5,611	10,510	15,321
1970	34,430	6,814	11,183	16,433
1971	35,949	7,087	11,838	17,024
1972	37,714	7,536	12,532	17,646
1973	38,139	7,588	12,587	17,964
1974	41,002	8,832	13,511	18,659
1975	42,592	9,242	14,028	19,322
1976	45,072	10,246	14,649	20,177
		Percent distribution		
1967	100.0	13.2	37.5	49.3
1968	100.0	15.7	34.9	49.4
1969	100.0	17.9	33.4	48.7
1970	100.0	19.8	32.5	44.7
1971	100.0	19.7	32.9	47.4
1972	100.0	20.0	33.2	46.8
1973	100.0	19.9	33.0	47.1
1974	100.0	21.5	33.0	45.5
1975	100.0	21.7	32.9	45.4
1976	100.0	22.7	32.5	44.8

Table 11.--Active Pilot Certificates Held, by Category and Age Group of Holder: 1976, 1975, 1971

Age group	Type of pilot certificates											
	Total active pilots			Student			Private airplane			Commercial airplane		
	1976	1975	1971	1976	1975	1971	1976	1975	1971	1976	1975	1971
Total.....	744,246	728,187	741,009	188,801	176,978	186,428	309,005	305,863	312,656	187,801	189,342	192,409
14-15	408	357	0	408	356	0	7,503	7,700	8,148	0	0	0
16-19	31,063	30,551	33,920	22,881	21,940	24,862	34,067	33,617	33,636	379	529	552
20-24	89,665	88,467	95,927	43,540	42,208	44,626	42,588	41,528	42,922	10,405	10,784	13,994
25-29	115,012	115,337	127,054	38,038	35,300	36,646	43,711	42,588	42,453	28,197	32,114	41,133
30-34	118,760	112,016	107,554	28,537	25,477	25,533	43,711	42,588	42,453	37,129	36,173	33,401
35-39	97,822	95,276	96,883	19,155	17,806	19,454	39,250	39,148	42,675	30,990	30,245	27,722
40-44	85,569	85,543	91,429	13,881	13,208	15,427	36,633	38,109	48,502	26,247	25,724	20,506
45-49	75,761	74,803	83,274	10,759	10,239	10,125	40,338	41,743	42,581	17,254	16,045	23,096
50-54	63,322	65,460	61,393	6,564	5,946	5,668	32,642	31,619	27,279	17,006	19,826	20,788
55-59	42,322	38,828	27,467	3,197	2,861	2,756	18,775	17,516	14,670	13,608	12,090	7,317
60 and over.	24,542	22,179	16,108	1,841	1,637	1,331	13,498	12,525	9,790	6,586	5,812	3,900
Type of pilot certificates												
Age group	Helicopter (only)			Glider (only)			Lighter-than-air			Flight instructor 1/		
	1976	1975	1971	1976	1975	1971	1976	1975	1971	1976	1975	1971
	1976	1975	1971	1976	1975	1971	1976	1975	1971	1976	1975	1971
Total	4,804	4,932	7,992	5,789	5,348	3,571	2,974	3,132	2,004	46,236	44,777	37,760
14-15	0	1	0	0	0	0	0	0	0	0	0	0
16-19	9	8	20	276	355	327	15	19	11	118	127	151
20-24	297	395	2,793	1,010	941	549	82	105	173	4,044	3,839	3,646
25-29	2,033	2,469	3,244	936	845	396	154	202	246	7,944	8,486	9,387
30-34	1,500	1,183	1,008	751	619	354	216	260	341	9,444	8,888	7,033
35-39	510	455	418	570	507	340	354	423	352	7,028	6,713	4,768
40-44	243	231	280	459	444	481	450	491	317	5,581	5,185	3,745
45-49	140	125	128	547	539	404	509	492	276	4,034	3,757	3,530
50-54	44	45	62	495	450	377	468	502	177	3,436	3,750	3,109
55-59	17	12	19	408	367	211	398	355	73	2,825	2,493	1,501
60 and over.	11	8	20	337	281	132	328	283	38	1,782	1,539	890

1/ Not included in total active pilots.

Table 12.--Instrument Ratings Held, by Class of Certificates: December 31, 1975 and 1976

Class of certificates	1975	1976	Percent change 1975-1976
Total--all groups	203,954	211,364	+4
Private pilots--total	<u>22,922</u>	<u>25,393</u>	+19
Private airplane (only)	21,201	23,462	+11
Private airplane, private glider	573	619	+8
Private airplane, commercial glider	36	50	+39
Private airplane, private helicopter	138	153	+11
Private airplane, private glider, private helicopter	7	8	+14
Private airplane, commercial helicopter	953	1,088	+14
Private airplane, private gyroplane	0	1	0
Private airplane, private glider, commercial helicopter	8	6	-25
Private airplane, commercial glider, commercial helicopter	5	5	0
Private airplane, other	1	1	0
Commercial pilots--total	<u>136,022</u>	<u>138,433</u>	+2
Commercial airplane (only)	115,446	117,490	-14
Commercial airplane, private glider	1,239	1,393	+12
Commercial airplane, commercial glider	3,019	3,157	+5
Commercial airplane, private helicopter	64	77	+20
Commercial airplane, commercial helicopter	15,604	15,630	0
Commercial airplane, private glider, commercial helicopter	95	103	+8
Commercial airplane, commercial glider, commercial helicopter	479	512	+7
Commercial airplane, commercial gyroplane	22	22	0
Commercial airplane, commercial helicopter, commercial gyroplane	26	24	-8
Commercial airplane, commercial gyroplane, commercial glider	3	3	0
Commercial airplane, commercial glider, private helicopter	10	7	-30
Commercial airplane, commercial gyroplane, commercial helicopter, commercial glider	15	15	0
Airline transport pilots--total	<u>42,592</u>	<u>45,072</u>	+6
Airline transport airplane	42,270	42,704	+1
Airline transport airplane, airline transport helicopter	322	368	+14
Rotorcraft pilots--total	<u>2,417</u>	<u>2,466</u>	+2
Commercial helicopter	2,391	2,439	+2
Airline transport helicopter	16	17	+6
Rotorcraft, other	10	10	0
Glider pilots--total	1	0	0
Private glider	1	0	0

Table 13.--Instrument Ratings Held, by Class of Certificates, by FAA Region: December 31, 1976

Class of Certificates	Total	New England	Eastern	Great Lakes	Central	Southern	Southwest	Rocky Mountain	Western	Northwest	Alaskan	Pacific	Foreign
Total--all groups	211,364	9,185	29,816	32,422	10,940	36,004	27,553	8,930	37,465	10,232	2,212	1,167	5,438
Private pilots--total.....	25,393	982	4,087	5,842	1,616	3,755	2,726	759	4,367	978	96	33	149
Private airplane (only).....	23,462	895	3,800	5,609	1,497	3,344	2,476	663	4,102	879	61	14	122
Private airplane, private glider.....	619	47	125	107	23	93	53	17	127	17	2	0	8
Private airplane, commercial glider.....	50	3	8	11	0	5	5	4	10	4	0	0	0
Private airplane, private helicopter.....	153	5	28	20	9	27	17	6	30	10	1	0	0
Private airplane, private glider.....	8	0	3	1	0	0	1	0	3	0	0	0	0
Private helicopter, private airplane, commercial helicopter.....	1,088	31	122	96	85	283	174	67	94	66	32	19	19
Private airplane, private gyroplane.....	1	1	0	0	0	0	0	0	0	0	0	0	0
Private airplane, private glider, commercial helicopter.....	6	0	1	1	0	0	0	1	1	2	0	0	0
Private airplane, commercial glider, commercial helicopter.....	5	0	0	0	0	3	0	1	0	0	0	0	0
Private airplane, other.....	1	0	0	1	0	0	0	0	0	0	0	0	0
Commercial pilots--total.....	138,433	5,525	19,198	20,683	7,413	23,834	19,014	6,203	24,281	7,071	1,510	789	2,912
Commercial airplane (only).....	117,490	4,699	16,174	18,319	6,477	19,518	16,058	5,326	20,692	5,896	1,225	613	2,493
Commercial airplane, private glider.....	1,393	53	237	209	50	186	145	88	361	138	9	7	10
Commercial airplane, commercial glider.....	512	161	509	412	128	485	350	128	87	152	20	2	38
Commercial airplane, private helicopter.....	15,630	582	2,167	1,591	727	3,503	2,367	610	2,441	917	244	140	362
Commercial airplane, private glider, commercial helicopter.....	103	6	22	15	3	19	14	5	12	6	0	0	1
Commercial airplane, commercial glider.....	512	19	77	58	23	93	66	26	103	34	6	3	4
Commercial airplane, commercial gyroplane.....	22	2	2	4	0	2	3	2	4	3	0	0	0
Commercial airplane, commercial helicopter.....	24	1	1	3	2	2	5	1	7	2	0	0	0
Commercial airplane, commercial gyroplane, commercial glider.....	3	0	0	0	0	1	0	0	1	1	0	0	0
Commercial airplane, commercial glider, private helicopter.....	7	0	1	2	0	2	0	0	2	0	0	0	0
Commercial airplane, commercial gyroplane, commercial glider.....	15	0	1	3	0	4	0	0	6	0	1	0	0
Airline transport pilots--total.....	45,072	2,602	6,215	5,855	1,799	7,695	5,374	1,877	8,592	2,035	569	299	2,330
Airline transport airplane.....	44,704	2,588	6,156	5,647	1,778	7,643	5,325	1,862	8,522	2,009	560	295	2,319
Airline transport airplane, airline transport helicopter.....	368	14	59	38	21	52	49	15	70	26	9	4	11
Rotocraft pilots--total.....	2,466	76	316	307	114	720	439	91	225	168	37	46	67
Commercial helicopter.....	2,439	76	314	305	111	711	436	91	219	147	37	46	46
Airline transport helicopter.....	17	0	1	2	2	2	3	0	6	0	0	0	1
Other.....	10	0	1	0	1	7	0	0	0	1	0	0	0

II. ACTIVE NONPILOT CERTIFICATES HELD

Table 14.--Active Nonpilot Airmen Certificates Issued, by FAA Region and State:
December 31, 1976 1/

FAA region and state	Total nonpilot airmen	Mechanic	Parachute rigger	Ground instructor	Dispatcher	Control tower operator	Flight navigator	Flight engineer
Total.....	334,681	212,303	8,718	53,464	5,838	25,484	2,214	27,560
United States--total.	324,184	205,888	8,607	52,589	4,612	23,784	2,063	26,641
New England--total	16,806	11,028	387	2,566	123	748	224	1,730
Maine	1,072	609	42	223	11	122	8	57
New Hampshire	1,482	598	24	240	11	205	23	381
Rhode Island	887	575	47	186	4	30	3	42
Massachusetts	8,263	6,259	180	1,113	58	247	26	380
Connecticut	4,653	2,725	82	676	36	127	162	845
Vermont	449	262	12	128	3	17	2	25
Eastern--total	58,806	39,957	1,434	8,588	1,366	3,460	442	3,559
New York	25,155	18,055	351	3,186	1,052	1,361	153	987
Pennsylvania	12,930	9,658	300	1,905	81	544	64	378
Virginia	5,164	2,415	344	906	106	704	45	644
Maryland	3,000	1,683	126	647	19	237	15	273
West Virginia	938	528	46	214	2	126	3	19
Delaware	898	592	22	139	6	87	7	45
New Jersey	10,141	6,643	221	1,465	84	378	145	1,205
District of Columbia ..	580	383	24	126	16	23	0	8
Great Lakes--total	42,601	26,135	1,175	8,427	417	3,066	62	3,319
Illinois	13,206	7,938	262	2,409	212	687	24	1,674
Indiana	4,234	2,563	160	858	25	455	4	144
Minnesota	7,047	4,347	139	1,116	88	356	7	994
Michigan	6,690	4,172	192	1,513	35	613	12	153
Ohio	8,300	5,273	278	1,812	44	718	13	162
Wisconsin	3,124	1,842	124	719	13	237	2	187
Central--total	18,030	12,074	408	3,429	133	1,195	16	775
Kansas	5,323	3,607	99	960	34	344	3	275
Iowa	2,517	1,586	86	620	7	166	0	52
Missouri	8,539	5,918	162	1,428	86	518	8	419
Nebraska	1,651	963	61	421	6	167	5	28
Southern--total	51,555	30,210	1,549	8,087	930	5,420	309	5,050
North Carolina	3,727	1,946	326	712	38	594	16	95
South Carolina	1,827	830	80	413	6	411	2	85
Georgia	9,975	5,656	273	1,158	174	811	20	1,883
Florida	24,217	15,074	401	3,578	573	1,735	243	2,613
Mississippi	1,583	753	34	373	5	357	6	55
Alabama	5,366	3,475	114	823	101	792	4	57
Tennessee	3,325	1,724	157	702	30	480	13	219
Kentucky	1,535	752	164	328	3	240	5	43
Southwest--total	40,013	24,933	976	6,942	275	3,734	103	3,050
Louisiana	3,300	1,999	90	610	22	367	3	209
Oklahoma	9,517	7,086	177	1,458	18	625	12	141
Texas	23,813	14,102	570	4,048	218	2,111	82	2,622
New Mexico	1,717	881	78	401	12	311	3	31
Arkansas	1,666	865	61	425	5	260	3	47
Rocky Mountain--total	11,855	6,459	532	2,540	142	994	82	1,146
Colorado	6,283	3,338	143	1,277	122	399	29	975
Wyoming	737	486	27	160	4	33	3	24
Utah	1,553	884	76	310	11	184	6	82
Montana	1,603	822	235	389	2	117	3	35
North Dakota	842	456	24	188	2	155	1	16
South Dakota	837	473	27	216	1	106	0	14
Western--total	64,753	42,812	1,371	8,998	852	3,667	697	6,356
California	58,092	38,718	1,173	7,785	811	3,017	607	5,981
Arizona	5,062	3,370	155	884	26	438	15	174
Nevada	1,599	724	43	329	15	212	75	201
Northwest--total	14,180	8,479	628	2,261	168	1,029	192	1,473
Washington	9,909	5,905	311	1,452	147	683	99	1,312
Oregon	2,872	1,761	194	539	17	205	38	118
Idaho	1,399	813	123	270	4	116	5	43
Alaskan Region--total	3,069	1,932	107	546	108	252	11	113
Pacific Region--total	2,516	1,869	40	205	98	219	15	70
Outside U.S.--total	10,497	6,415	111	875	1,226	800	151	919

NOTE: Puerto Rico and Virgin Island are included in Outside of U.S. total.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

Table 15.--Active Women with Nonpilot Certificates Held, by FAA Region and State:
December 31, 1976 1/

FAA region and state	Total	Mechanic	Parachute rigger	Ground instructor	Dispatcher	Control tower operator
Total.....	2/ 4,252	422	516	2,369	55	874
United States--total.	4,202	418	515	2,361	51	843
New England--total	183	18	25	115	1	22
Maine	19	1	4	10	0	4
New Hampshire	13	0	0	9	0	3
Rhode Island	20	0	12	7	0	1
Massachusetts	73	4	6	55	0	8
Connecticut	52	13	3	29	1	6
Vermont	6	0	1	5	0	0
Eastern--total	574	46	55	333	16	122
New York	231	19	10	128	15	57
Pennsylvania	101	6	8	68	0	19
Virginia	83	2	29	33	0	19
Maryland	31	0	2	25	0	4
West Virginia	19	7	0	7	0	3
Delaware	10	3	1	4	0	2
New Jersey	87	8	4	59	1	15
District of Columbia ..	12	1	1	9	0	1
Great Lakes--total	501	56	48	389	2	96
Illinois	174	16	8	124	0	26
Indiana	63	4	19	34	0	6
Minnesota	48	5	3	26	1	13
Michigan	109	16	3	74	0	16
Ohio	148	20	11	94	0	23
Wisconsin	59	5	4	37	1	12
Central--total	236	32	21	139	1	42
Kansas	81	21	6	41	0	12
Iowa	45	7	2	33	0	3
Missouri	85	3	11	53	0	18
Nebraska	25	1	2	12	1	9
Southern--total	815	51	122	436	8	197
North Carolina	92	1	36	36	0	19
South Carolina	38	3	1	21	0	13
Georgia	70	3	8	41	1	17
Florida	296	38	20	178	6	53
Mississippi	42	1	4	25	0	12
Alabama	155	1	7	85	1	61
Tennessee	82	1	36	30	0	15
Kentucky	40	3	10	20	0	7
Southwest--total	625	41	121	337	3	120
Louisiana	33	1	2	26	0	4
Oklahoma	132	13	16	74	0	29
Texas	385	24	86	201	3	68
New Mexico	49	1	14	23	0	11
Arkansas	26	2	3	13	0	8
Rocky Mountain--total	178	9	21	120	2	26
Colorado	87	4	7	64	1	11
Wyoming	11	2	2	7	0	0
Utah	21	1	5	10	0	5
Montana	22	1	7	14	0	0
North Dakota	17	0	0	7	1	9
South Dakota	20	1	0	18	0	1
Western--total	734	126	73	369	8	155
California	641	117	60	312	8	141
Arizona	71	8	8	43	0	12
Nevada	22	1	5	14	0	2
Northwest--total	168	20	18	81	1	47
Washington	98	14	5	40	1	37
Oregon	55	4	12	30	0	9
Idaho	15	2	1	11	0	1
Alaskan Region--total	62	5	10	31	7	6
Pacific Region--total	26	3	0	11	2	10
Outside U.S.--total	50	4	1	8	4	31

NOTE: Puerto Rico and Virgin Islands are included in Outside U.S. total.
There were no women with current certificates for flight navigator.

1/ Data for control tower operators, flight engineers, and flight navigators represent total active ratings held. Data for dispatchers, mechanics, parachute riggers, and ground instructors, represent total ratings issued to date. These ratings retain their validity.

2/ Total includes eight (8) flight engineers: one in New Hampshire, New York, Mississippi, Florida, Texas, Alaska, and two in California.

Table 16.--Active Nonpilot Certificates Held, by Category and Age group of Holder: 1976, 1975, 1971

Age group	Type of pilot certificates											
	Total nonpilots			Mechanic <u>1</u> /			Parachute rigger <u>1</u> /			Ground instructor <u>1</u> /		
	1976	1975	1971	1976	1975	1971	1976	1975	1971	1976	1975	1971
Total.....	334,681	323,934	307,057	212,303	205,436	193,295	8,718	8,327	6,839	53,464	51,365	46,145
14-15	10	13	0	3	2	0	0	0	0	7	11	0
16-19	609	579	478	459	371	320	10	11	10	63	65	53
20-24	13,845	12,869	18,354	7,732	7,334	9,927	442	481	557	1,979	1,806	1,598
25-29	33,064	35,343	35,207	19,763	21,486	21,143	1,360	1,343	1,021	4,680	4,952	4,858
30-34	45,468	42,690	38,304	26,201	24,141	19,488	1,372	1,235	1,134	7,165	6,626	4,136
35-39	41,157	39,982	38,476	21,581	20,672	22,005	1,275	1,317	1,199	5,231	4,659	2,930
40-44	39,084	38,489	35,330	23,442	23,950	23,971	1,268	1,146	771	3,773	3,484	3,382
45-49	34,773	33,808	43,440	24,598	24,228	30,636	808	760	693	3,829	3,996	6,727
50-54	41,020	44,317	44,087	29,728	31,601	29,940	732	727	530	6,536	7,477	8,636
55-59	40,101	35,819	25,000	28,283	24,949	16,783	557	507	379	7,886	7,301	6,027
60 and over.	45,550	40,025	28,381	30,513	26,702	19,082	894	800	545	12,315	10,988	7,798
Total	Dispatcher <u>1</u> /			Control tower operator			Flight navigator			Flight engineer		
	1976	1975	1971	1976	1975	1971	1976	1975	1971	1976	1975	1971
	5,838	5,741	5,480	24,584	23,956	26,450	2,214	2,321	3,052	27,560	26,788	25,796
14-15	0	0	0	0	0	0	0	0	0	0	0	0
16-19	1	1	0	76	131	95	0	0	0	0	0	0
20-24	17	21	64	3,461	3,071	6,135	0	0	4	214	156	69
25-29	244	286	425	5,913	6,156	4,858	2	3	77	1,102	1,117	2,825
30-34	629	630	546	4,787	3,978	3,959	64	108	570	5,250	5,972	8,471
35-39	630	621	652	3,452	3,774	4,629	498	584	618	8,490	8,355	6,443
40-44	685	665	654	3,233	3,289	2,966	537	500	366	6,146	5,455	3,220
45-49	651	644	793	1,867	1,556	1,575	272	261	510	2,748	2,363	2,506
50-54	775	859	1,015	894	1,130	1,626	328	390	664	2,027	2,133	1,676
55-59	965	934	660	719	702	474	408	395	202	1,283	1,031	475
60 and over.	1,241	1,080	671	182	169	133	105	80	41	300	206	111

1/ Numbers represent all certificates on record. No medical examination required; no determination as to activity can be made.

Table 17.--FAA Designated Mechanic and Parachute Rigger Examiners by FAA Region and State: 1976

FAA region and state	Mechanic Examiners				Parachute Rigger Examiner			
	Total	Airframe	Powerplant	Airframe Powerplant	Total	Back	Chest	Seat
Total.....	575	31	29	515	82	82	82	1/78
United States--total.	538	31	29	478	78	78	78	2/74
New England--total	19	4	4	11	5	5	5	3
Maine	1	0	0	1	0	0	0	0
New Hampshire	1	1	0	0	1	1	1	1
Rhode Island	0	0	0	0	0	0	0	0
Massachusetts	11	3	4	4	2	2	2	0
Connecticut	5	0	0	5	2	2	2	2
Vermont	1	0	0	1	0	0	0	0
Eastern--total	61	8	7	46	12	12	12	4/12
New York	32	6	5	21	4	4	4	4/4
Pennsylvania	14	0	0	14	1	1	1	1
Virginia	3	0	0	3	2	2	2	2
Maryland	4	0	0	4	2	2	2	2
West Virginia	1	0	0	1	0	0	0	0
Delaware	1	0	0	1	0	0	0	0
New Jersey	6	2	2	2	3	3	3	3
District of Columbia ..	0	0	0	0	0	0	0	0
Great Lakes--total	112	3	2	107	8	8	8	4/9
Illinois	38	1	2	35	2	2	2	4/3
Indiana	14	0	0	14	2	2	2	2
Minnesota	18	2	0	16	0	0	0	0
Michigan	16	0	0	16	1	1	1	1
Ohio	17	0	0	17	3	3	3	3
Wisconsin	9	0	0	9	0	0	0	0
Central--total	37	1	1	35	4	4	4	4
Kansas	7	1	1	5	1	1	1	1
Iowa	9	0	0	9	1	1	1	1
Missouri	16	0	0	16	1	1	1	1
Nebraska	5	0	0	5	1	1	1	1
Southern--total	77	3	3	71	9	9	9	8
North Carolina	6	0	0	6	1	1	1	1
South Carolina	2	0	0	2	0	0	0	0
Georgia	11	0	0	11	1	1	1	1
Florida	37	3	3	31	2	2	2	2
Mississippi	5	0	0	5	0	0	0	0
Alabama	6	0	0	6	1	1	1	0
Tennessee	8	0	0	8	2	2	2	2
Kentucky	2	0	0	2	2	2	2	2
Southwest--total	66	10	8	48	8	8	8	7
Louisiana	2	0	0	2	1	1	1	1
Oklahoma	21	5	4	12	1	1	1	1
Texas	36	5	4	27	3	3	3	3
New Mexico	4	0	0	4	1	1	1	1
Arkansas	3	0	0	3	2	2	2	1
Rocky Mountain--total ...	17	1	2	14	8	8	8	4/8
Colorado	7	0	1	6	2	2	2	2
Wyoming	1	0	0	1	1	1	1	1
Utah	2	0	0	2	1	1	1	4/2
Montana	3	1	1	1	3	3	3	2
North Dakota	2	0	0	2	0	0	0	0
South Dakota	2	0	0	2	1	1	1	1
Western--total	100	0	1	99	10	10	10	3/12
California	85	0	1	84	8	8	8	3/10
Arizona	10	0	0	10	1	1	1	1
Nevada	5	0	0	5	1	1	1	1
Northwest--total	33	1	1	31	9	9	9	7
Washington	22	1	1	20	2	2	2	2
Oregon	6	0	0	6	4	4	4	2
Idaho	5	0	0	5	3	3	3	3
Alaskan region--total ...	14	0	0	14	4	4	4	3
Pacific region--total ...	2	0	0	2	1	1	1	1
Outside U.S.--total	37	0	0	37	4	4	4	4/4

1/ Includes 6 Examiners with Lap Ratings.

2/ Includes 5 Examiners with Lap Ratings.

3/ Includes 2 Examiners with Lap Ratings.

4/ Includes 1 Examiner with Lap Rating.

Table 18.--Pilot Certificates Issued, by Category: Calendar Years 1972-76

Category of certificates	1972		1973		1974		1975		1976	
	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings	Original issuances	Additional ratings
Pilot-total	193,896	34,295	207,305	39,656	185,914	38,700	193,888	35,395	204,489	39,112
Student	121,543	0	131,384	0	113,997	0	127,424	0	129,280	0
Private	50,523	8,371	53,140	9,797	48,501	9,866	49,733	9,734	55,583	12,618
Commercial	16,043	22,236	16,769	24,823	17,693	24,638	12,620	21,860	13,577	22,059
Airline transport	2,604	3,410	3,224	4,391	3,219	3,557	2,765	3,370	3,869	3,901
Helicopter (only)	2,421	263	1,719	507	1,298	387	866	251	1,064	276
Glider (only) ...	713	14	892	131	832	244	230	158	848	238
Lighter-Than-Air.	49	1	177	7	374	8	250	22	268	20
Non-pilot--total ...	13,710	8,164	15,857	8,514	12,410	7,777	12,491	7,137	15,069	7,751
Mechanic	8,138	3,215	8,355	3,329	6,618	2,748	6,930	2,606	8,501	3,149
Parachute rigger.	457	60	418	63	468	83	414	62	454	76
Ground instructor	2,223	670	2,506	732	2,416	852	2,193	714	2,390	707
Dispatcher	151	0	135	0	152	0	140	1	106	0
Control tower operator	2,004	3,966	1,863	4,227	1,733	3,979	2,164	3,657	2,382	3,686
Flight navigator.	35	0	70	0	7	1	4	0	2	0
Flight engineer .	702	253	2,510	163	816	174	646	97	1,234	133
Flight instructor certificates 1/..	5,292	2,809	6,199	3,102	6,312	3,399	5,233	3,427	6,137	4,718
Instrument ratings*.	0	17,311	0	19,549	0	19,012	0	16,495	18,155	0

1/ Not included in total.

*Special ratings shown on pilot certificates represented above; not to be added to total.

NOTE: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument rating.

Helicopter pilot--Instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give instruction.

Air traffic control tower operator--junior/senior ratings for airports where holder may control air traffic.

III. PILOT CERTIFICATES ISSUED

Table 19.--Pilot Certificates Issued, by Class of Conductor: Calendar Year 1976

Category of certificate	Total ratings issued	Original issuances			Additional ratings		
		Total	Examiner	Inspector	No test	Total	Inspector
Total	266,376	219,513	71,725	135,703	12,085	46,863	6,201
Pilot--total	243,556	204,444	62,485	134,483	7,476	39,112	5,926
Student	129,280	129,280	0	129,280	0	0	0
Private	68,156	55,538	50,312	1,225	4,001	12,618	577
Commercial	35,636	13,577	10,423	377	2,777	17,916	1,534
Airline transport	7,770	3,869	544	3,281	44	3,901	3,699
Helicopter (only)	1,340	1,064	265	146	653	276	66
Glider (only)	1,086	848	753	94	1	238	42
Lighter-Than-Air	288	268	188	80	0	20	8
Non-pilot--total ...	22,820	15,069	9,240	1,220	4,609	7,751	275
Mechanic	11,650	8,501	6,081	325	2,095	3,149	164
Parachute rigger	530	454	281	106	67	76	19
Ground instructor	3,097	2,390	0	0	2,390	707	0
Dispatcher	106	106	43	63	0	0	0
Control tower	6,068	2,382	2,382	0	0	3,686	1
Operator	2	2	1	1	0	0	0
Flight navigator	1,367	1,234	452	725	57	133	0
Flight engineer	10,855	6,137	7	6,130	0	4,718	91
Flight instructor*						10	4,708
							0

Note: Excludes renewals.

*Special ratings shown on pilot certificates represented above, not to be added to total.

Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot--aircraft category, class, and type instrument ratings.

Helicopter pilot--Instrument and type ratings.

Flight instructor--ratings for each aircraft category in which the holder is qualified to instruct and for instrument flying instruction.

Mechanic--airframe and powerplant ratings.

Parachute rigger--senior or master rigger ratings.

Ground instructor--ratings for each subject in which the holder is qualified to give ground instruction.

Air traffic control tower operator--junior/senior ratings for airports where holder may control air traffic.

Table 20.--Instrument Ratings Issued: 1976, 1975, 1972

Class of Certificate	1976	1975	1972	Percent change 1975-1976
Total--all groups	18,155	16,495	17,311	+10
Private pilots--total	<u>6,686</u>	<u>4,670</u>	<u>3,853</u>	<u>+43</u>
Private airplane (only)	6,135	4,249	3,380	+44
Private airplane, private glider	92	47	61	+96
Private airplane, commercial glider	4	0	4	0
Private airplane, private helicopter	12	19	8	-37
Private airplane, commercial helicopter ...	194	167	288	+16
Private airplane, private glider, private helicopter	0	1	1	0
Private airplane, other	249	187	111	+33
Commercial pilots--total	<u>10,793</u>	<u>11,222</u>	<u>12,234</u>	<u>- 4</u>
Commercial airplane (only)	9,624	10,074	10,385	- 4
Commercial airplane, private glider	125	15	78	+733
Commercial airplane, commercial glider	99	69	72	+43
Commercial airplane, private helicopter ...	1	6	4	-83
Commercial airplane, commercial helicopter.	920	1,042	1,684	-12
Commercial airplane, private glider commercial helicopter	6	2	4	+200
Commercial airplane, commercial glider commercial helicopter	12	8	7	+50
Commercial airplane, other	6	6	0	0
Rotorcraft pilots--total	<u>676</u>	<u>603</u>	<u>1,224</u>	<u>+12</u>
Commercial helicopter	671	598	1,220	+12
Airline transport helicopter	3	4	0	-25
Commercial helicopter, private glider	1	0	1	0
Commercial helicopter, commercial glider ..	1	1	0	0
Commercial helicopter, other	0	0	3	0

Figure 5. Student Certificates Issued Quarterly: 1972-76

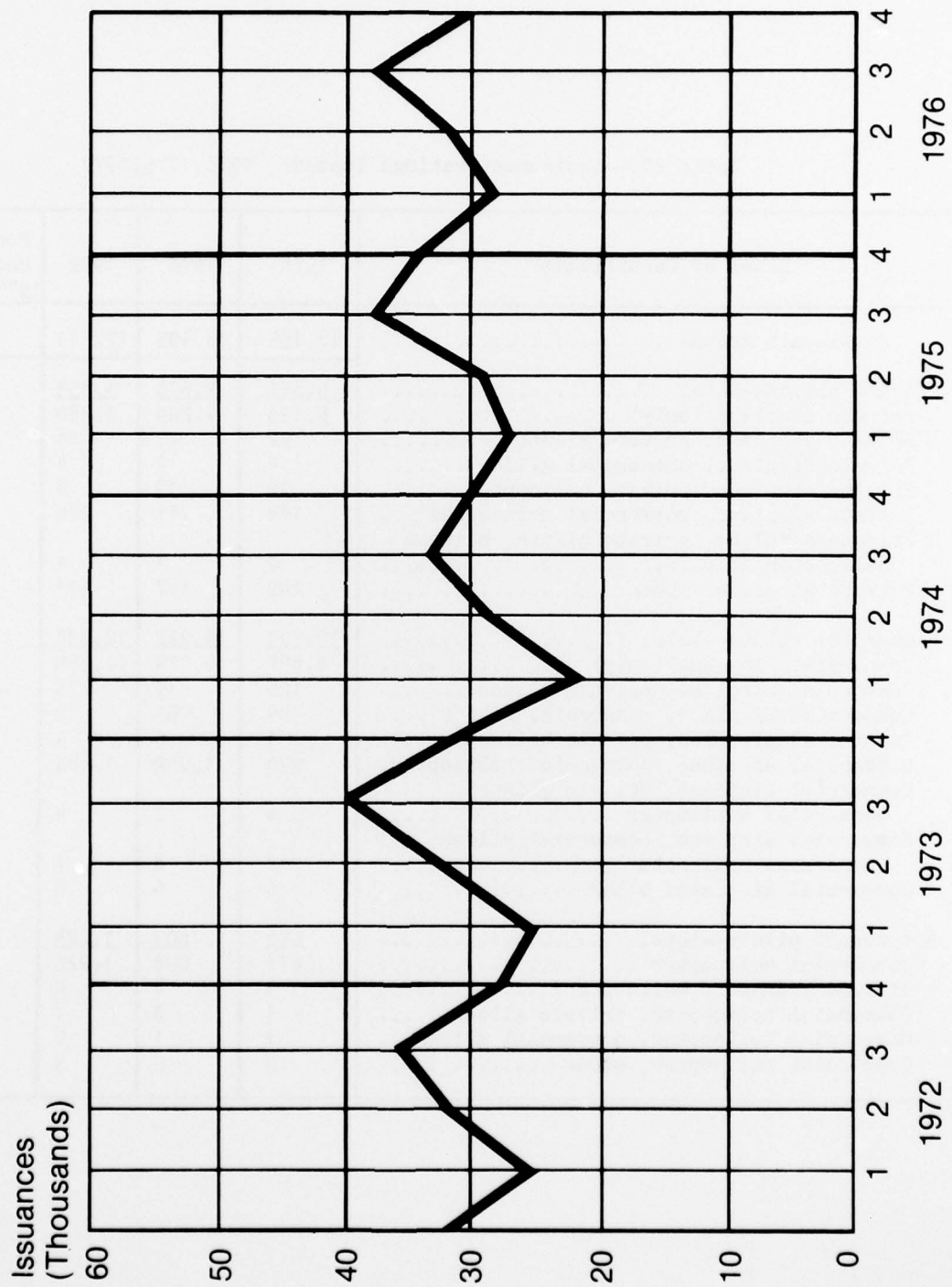


Table 21.--Student Certificates Issued, by Month: 1972-1976

Month	1976	1975	1974	1973	1972
Total	129,280	127,424	113,997	131,384	121,543
January	11,853	9,794	8,200	7,608	7,515
February	6,396	7,506	6,195	8,622	7,936
March	10,921	9,445	7,661	9,963	10,176
April	10,835	8,654	7,960	10,513	10,445
May	10,749	10,204	10,013	10,712	10,495
June	10,322	9,865	10,970	12,242	11,174
July	12,300	12,339	10,261	13,473	10,366
August	12,930	12,471	12,431	14,643	15,007
September	12,320	13,587	10,320	11,568	10,850
October	8,864	11,979	10,863	11,715	10,962
November	12,292	11,681	9,770	12,385	10,298
December	9,498	9,899	9,353	7,940	6,319